

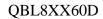
QT-Brightek Lamp Series

5mm Round Lamp

Part No.: QBL8XX60D

XX: Color Code

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	Version# 1.0	





5mm Round Lamp

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Introduction

Feature:

- Color diffused lens
- Packaged in bulk pack
- 5mm round lamp
- Viewing angle: 60° typ.

Description:

These bright 5mm round type lamps are suitable for all indicator applications such as electronic signs and electronic board indictor.

Application:

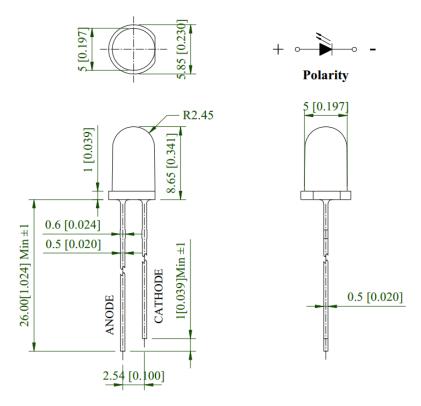
- General purpose indicator application
- Electronic signs and electronics board
- LED lighting

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / general tolerance = +/-0.25mm unless otherwise specified

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Electrical / Optical Characteristic (Ta=25°C)

Product	Color	I (m A)	V _F	(V)	λ _D (nm)	I _V (m	ncd)
Product	Color	I _F (mA)	Тур.	Max.	Тур.	Min.	Тур.
QBL8R60D	Red	20	2.0	2.6	624	210	350
QBL8S60D	Deep Red	20	2.0	2.6	630	90	160
QBL8O60D	Orange	20	2.0	2.6	605	70	120
QBL8Y60D	Yellow	20	2.0	2.6	590	160	210
QBL8AG60D	Yellow Green	20	2.0	2.6	573	45	70
QBL8IG60D	True Green	20	3.2	3.6	525	1000	1700
QBL8IB60D	Blue	20	3.2	3.6	470	350	600

Absolute Maximum Rating

Mat	terial	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SOL} (°C)**
Allr	nGaP	65	25	100	5	-40 to +85	-40 to +100	260
In0	GaN	95	25	100	5	-40 to +85	-40 to +100	260

^{*1/10} Duty Cycle, 0.1ms Pulse Width

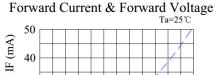
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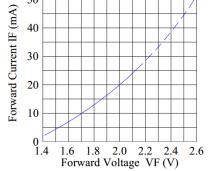
^{**}Wave Soldering for no more than 3 sec @ 260 °C



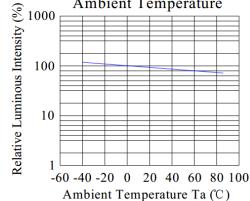
Characteristic Curves

AllnGaP (R/S/AG/O/Y)

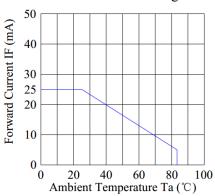




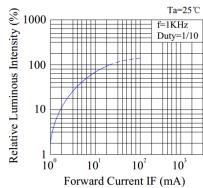
Luminous Intensity & Ambient Temperature



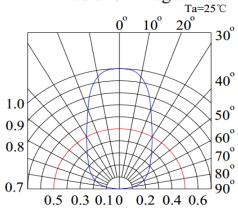
Forward Current Derating Curve



Luminous Intensity & Forward Current

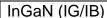


Radiation Diagram

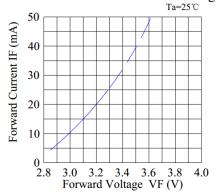


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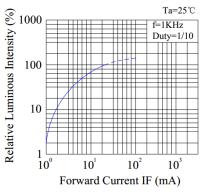




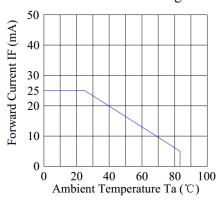
Forward Current & Forward Voltage



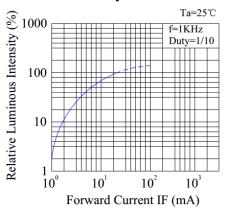
Luminous Intensity & Forward Current



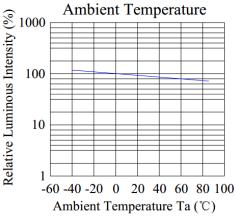
Forward Current Derating Curve



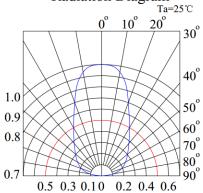
Luminous Intensity & Forward Current



Luminous Intensity & Ambient Temperature







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5mm Round Lamp

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per bag
QBL8R60D	QBL8R60D	Iv=350mcd typ. @ 20mA, λ_D =624nm typ.	500pcs
QBL8S60D	QBL8S60D	Iv=160mcd typ. @ 20mA, λ_D =630nm typ.	500pcs
QBL8O60D	QBL8O60D	Iv=120mcd typ. @ 20mA, λ_D =605nm typ.	500pcs
QBL8Y60D	QBL8Y60D	Iv=210mcd typ. @ 20mA, λ_D =590nm typ.	500pcs
QBL8AG60D	QBL8AG60D	Iv=70mcd typ. @ 20mA, λ_D =573nm typ.	500pcs
QBL8IG60D	QBL8IG60D	Iv=1700mcd typ. @ 20mA, λ_D =525nm typ.	500pcs
QBL8IB60D	QBL8IB60D	Iv=600mcd typ. @ 20mA, λ_D =470nm typ.	500pcs

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Revision History

Description:	Revision #	Revision Date
New Release of QBL8XX60D	V1.0	11/16/2017

Disclaimer

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- 1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
- 2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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